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1 A taxonomy of Data Grids for distributed data sharing, management, and processing

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao

June 2006   **Computing Surveys (CSUR)** , Volume 38 Issue 1

Publisher: ACM

Full text available: Pdf (1.70 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 151,   Downloads (12 Months): 1279,   Citation Count: 13

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

2 Direct3D 10 programming guide excerpts

August 2007   **SIGGRAPH '07**: SIGGRAPH 2007 courses

Publisher: ACM

Full text available: Pdf (1.19 MB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 119,   Citation Count: 0

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3 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004   **Transactions on Computer Systems (TOCS)** , Volume 22 Issue 4

Publisher: ACM

Full text available: Pdf (1.82 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 43,   Downloads (12 Months): 353,   Citation Count: 13

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. ...

Keywords: Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

4 Operational information systems: an example from the airline industry

Van Oleson, Greg Eisenhaur, Calton Pu, Karsten Schwan, Beth Plale, Dick Amin

October 2000   **WIESS'00: Proceedings of the 1st conference on Industrial Experiences with Systems Software - Volume 1** , Volume 1

Publisher: USENIX Association

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 2

Our research is motivated by the scaleability, availability, and extensibility challenges in deploying open systems based, enterprise operational applications. We present Delta's mid-tier Operational Information Systems (OIS) as an approach for leveraging ...

5 Architecture of a quality based intelligent proxy (QBIX) for MPEG-4 videos

Peter Schojer, Laszlo Böszörmenyi, Hermann Hellwagner, Bernhard Penz, Stefan Podlipnig

May 2003   **WWW '03:** Proceedings of the 12th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (296.15 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 45,   Citation Count: 6

Due to the increasing availability and use of digital video data on the Web, video caching will be an important performance factor in the future WWW. We propose an architecture of a video proxy cache that integrates modern multimedia and communication ...

Keywords: LRU, MPEG-4, MPEG-7, RTP, RTSP, media adaptation, media gateway, replacement, video caching, video proxy

6 Adaptive query processing: why, how, when, what next?

Amol Deshpande, Zachary Ives, Vijayshankar Raman

September 2007   **VLDB '07:** Proceedings of the 33rd international conference on Very large data bases

Publisher: VLDB Endowment

Full text available: Pdf (111.38 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 71,   Citation Count: 0

Adaptive query processing has been the subject of a great deal of recent work, particularly in emerging data management environments such as data integration and data streams. We provide an overview of the work in this area, identifying its common themes, ...

7 Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne

August 2004   **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: Pdf (14.01 MB)   Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): 139,   Downloads (12 Months): 1051,   Citation Count: 1

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• ...

8 PSoup: a system for streaming queries over streaming data

Sirish Chandrasekaran, Michael J. Franklin

August 2003   **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (267.99 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 48,   Citation Count: 9

Abstract.Recent work on querying data streams has focused on systems where newly arriving data is processed and continuously streamed to the user in real time. In many emerging applications, however, ad hoc queries and/or intermittent connectivity also ...

Keywords: Disconnected operation, Query-data duality, Stream query processing

9 Automating the loading of business process data warehouses

Malu Castellanos, Alkis Simitsis, Kevin Wilkinson, Umeshwar Dayal
March 2009 **EDBT '09:** Proceedings of the 12th International Conference on Extending Database Technology: Advances in Database Technology
Publisher: ACM

Full text available: Pdf (629.14 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 7,   Citation Count: 0

Business processes drive the operations of an enterprise. In the past, the focus was primarily on business process design, modeling, and automation. Recently, enterprises have realized that they can benefit tremendously from analyzing the behavior of ...

10 Streaming queries over streaming data

Sirish Chandrasekaran, Michael J. Franklin
August 2002 **VLDB '02:** Proceedings of the 28th international conference on Very Large Data Bases
Publisher: VLDB Endowment

Full text available: Pdf (205.96 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 53,   Citation Count: 12

Recent work on querying data streams has focused on systems where newly arriving data is processed and continuously streamed to the user in real-time. In many emerging applications, however, ad hoc queries and/or intermittent connectivity also require ...

11 Data integration flows for business intelligence

Umeshwar Dayal, Malu Castellanos, Alkis Simitsis, Kevin Wilkinson
March 2009 **EDBT '09:** Proceedings of the 12th International Conference on Extending Database Technology: Advances in Database Technology
Publisher: ACM

Full text available: Pdf (1.41 MB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 18,   Downloads (12 Months): 18,   Citation Count: 0

Business Intelligence (BI) refers to technologies, tools, and practices for collecting, integrating, analyzing, and presenting large volumes of information to enable better decision making. Today's BI architecture typically consists of a data warehouse ...

Keywords: ETL, business intelligence, data integration, data warehousing

12 ETL queues for active data warehousing

Alexandros Karakasidis, Panos Vassiliadis, Evaggelia Pitoura

June 2005   **IQIS '05:** Proceedings of the 2nd international workshop on Information quality in information systems

Publisher: ACM

Full text available: Pdf (577.05 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 26,   Downloads (12 Months): 264,   Citation Count: 4

Traditionally, the refreshment of data warehouses has been performed in an off-line fashion. Active Data Warehousing refers to a new trend where data warehouses are updated as frequently as possible, to accommodate the high demands of users for fresh ...

13 Sense & response service architecture (SARESA): an approach towards a real-time business intelligence solution and its use for a fraud detection application

Tho Manh Nguyen, Josef Schiefer, A. Min Tjoa

November 2005   **DOLAP '05:** Proceedings of the 8th ACM international workshop on Data warehousing and OLAP

Publisher: ACM

Full text available: Pdf (1.60 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 40,   Downloads (12 Months): 307,   Citation Count: 2

The dynamic business environment of many organizations require massive monitoring of their processes in real-time in order to proactively respond to exceptional situations and to take advantage of time-sensitive business opportunities. The ability to ...

Keywords: data analysis, event sense & response, real-time business intelligence, real-time data warehousing and OLAP

14 ACM SIGGRAPH Computer Graphics: Volume 37 Issue 2

May 2003   SIGGRAPH Computer Graphics

Publisher: ACM

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

15 Semantics to energize the full services spectrum

Amit Sheth, Kunal Verma, Karthik Gomadam

July 2006   **Communications of the ACM** , Volume 49 Issue 7

Publisher: ACM

Full text available: Html (53.24 KB), Pdf (361.21 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 47,   Downloads (12 Months): 417,   Citation Count: 7

Using an ontological approach to better exploit services at the technical and business levels.

16 From Web Services to OGSA: Experiences in Implementing an OGSA-based Grid Application

Radu Prodan, Thomas Fahringer

November 2003 **GRID '03:** Proceedings of the 4th International Workshop on Grid Computing

Publisher: IEEE Computer Society

Full text available: Pdf (604.01 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 23,   Citation Count: 3

In previous work we have presented the ZENTURIO experimentmanagement system for performance and parameterstudies of parallel and distributed applications on clusterand Grid architectures. In this paper we describe experiencesof an on-going work, targeting ...

17 A principled design for scalable internet visual communications with rich media, interactivity, and structured archives

Ron Baecker

October 2003 **CASCON '03:** Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: Pdf (1.44 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 121,   Citation Count: 9

In contrast to video conferencing, webcasting supports scaleable Internet visual communications, yet it is typically viewed as an ephemeral one-way broadcast medium. We present a principled design for interactive webcasts that are accessible both in ...

18 User-friendly and reliable grid computing based on imperfect middleware

Rob V. van Nieuwpoort, Thilo Kielmann, Henri E. Bal

November 2007 **SC '07:** Proceedings of the 2007 ACM/IEEE conference on Supercomputing

Publisher: ACM

Full text available: Pdf (362.25 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 62,   Citation Count: 1

Writing grid applications is hard. First, interfaces to existing grid middleware often are too low-level for application programmers who are domain experts rather than computer scientists. Second, grid APIs tend to evolve too quickly for applications ...

Keywords: grid computing, intelligent dispatching, nested exceptions

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